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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/666,697	09/22/2003	Judson Sloan Marte	133736	1407	
6147	7590 09/01/2005	•	EXAM	EXAMINER	
GENERAL ELECTRIC COMPANY			BARRERA, RAMON M		
GLOBAL RESEARCH			ART UNIT	PAPER NUMBER	
PATENT DOCKET RM. BLDG. K1-4A59 NISKAYUNA, NY 12309		4A59	2832	TATER NOMBER	
Monarion	1, 111 12307		DATE MAILED: 09/01/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	A STATE OF THE STA			
Office Assistance O	10/666,697	MARTE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ramon M. Barrera	2832				
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet with	the correspondence addr	ess			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA: - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communice. If the period for reply specified above is less than thirty (30) day if NO period for reply is specified above, the maximum statutor. - Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a repation. ys, a reply within the statutory minimum of thirty (y period will apply and will expire SIX (6) MONTH by statute, cause the application to become ABAI	ly be timely filed (30) days will be considered timely. 1S from the mailing date of this community NDONED (35 U.S.C. § 133).	nunication,			
Status						
1) Responsive to communication(s) filed or	n <u>19 April 2005</u> .					
2a) This action is FINAL . 2b)	☑ This action is non-final.	•				
3) Since this application is in condition for a closed in accordance with the practice u	•	•	nerits is			
Disposition of Claims						
4) ☐ Claim(s) <u>1-37</u> is/are pending in the applitude 4a) Of the above claim(s) <u>30-37</u> is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-7,10-17,21-26,28 and 29</u> is/are objected. 7) ☐ Claim(s) <u>8,9,18-20 and 27</u> is/are objected.	ithdrawn from consideration. re rejected. ed to.		•			
Application Papers						
9)☐ The specification is objected to by the Ex	aminer.					
10) The drawing(s) filed on 22 September 20 Applicant may not request that any objection			ner.			
Replacement drawing sheet(s) including the			1.121(d).			
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached (Office Action or form PTO	-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for f a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 	uments have been received.					
Copies of the certified copies of the		eceived in this National St	age			
application from the International I						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Sur	nmary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-98) Information Disclosure Statement(s) (PTO-1449 or PTO-Paper No(s)/Mail Date 9/22/03. 		Mail Date rmal Patent Application (PTO-15	52)			

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DETAILED ACTION

Election/Restrictions

1. Claims 30-37 are withdrawn from further consideration pursuant to 37 CFR

linking claim. Election was made without traverse in the reply filed on 4/19/05.

1.142(b) as being drawn to nonelected inventions, there being no allowable generic or

Claim Rejections - 35 USC § 112

2. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention. In Claim 10 "percent" should be inserted between "atomic"

and "Fe".

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by

Akioka(US5597425), cited on Applicant's IDS.

Akioka discloses in Table 3(col. 12), sample 19, which contains Pr, comprising at least 30 weight percent and at least 50 atomic percent of the rare earth content of the composition; Fe, comprising at least 50 weight percent of the transition

metal content; Nd and Ce; and the alloy contains 0.1 weight percent oxygen (col. 10, line 2).

Claim Rejections - 35 USC § 103

5. Claims 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akioka, cited above.

Akioka discloses the claimed invention except for the alloy comprising at least 80 weight percent of the $R_2Fe_{14}B$ phase . Akioka in col. 5, lines 8-34, discloses the advantage of enhancing the $R_2Fe_{14}B$ phase of the magnet. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide for at least 80 weight percent of the $R_2Fe_{14}B$ phase, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Akioka did not specifically disclose locating the permanent magnet in a motor, a generator, or on an MRI yoke. Akioka, in col 1, lines 30-37, discloses the employment of his permanent magnets in a wide variety of fields where high performance standards are desired. It would have been obvious to one of ordinary skill at the time the invention was made to employ Akioka's permanent magnet in a motor, a generator, or on a yoke of an MRI system for the purpose of providing said devices with high energy performance characteristics.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11

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F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 7. Claims 14-16 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 20, 21 and 23 of U.S. Patent No. 6518867 in view of Akioka, cited above. U.S. Patent No. 6518867 did not disclose the claimed permanent magnet material. Akioka, in col 1, lines 30-37, disclosed the employment of his permanent magnets in a wide variety of fields where high performance standards are desired. It would have been obvious to one of ordinary skill at the time the invention was made to employ Akioka's permanent magnet in U.S. Patent No. 6518867 for the purpose of providing the MRI device with high energy performance characteristics.
- 8. Claims 14-17 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 64 of copending Application No. 10/309146 in view of Akioka, cited above.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Application No. 10/309146 did not disclose the claimed permanent magnet material. Akioka, in col 1, lines 30-37, disclosed the employment of his permanent magnets in a wide variety of fields where high performance standards are desired. It

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would have been obvious to one of ordinary skill at the time the invention was made to employ Akioka's permanent magnet in Application No. 10/309146 for the purpose of providing the MRI device with high energy performance characteristics.

Claims 21-26, 28, and 29 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1,2,5,7,and 12 of U.S. Patent No. 6525634 in view of Akioka, cited above. U.S. Patent No. 6525634 did not disclose the claimed permanent magnet material. Akioka, in col 1, lines 30-37, disclosed the employment of his permanent magnets in a wide variety of fields where high performance standards are desired. It would have been obvious to one of ordinary skill at the time the invention was made to employ Akioka's permanent magnet in U.S. Patent No. 6525634 for the purpose of providing the MRI device with high energy performance characteristics. U.S. Patent No. 6525634 in view of Akioka did not disclose magnetizing the precursor body at a temperature above room temperature or subjecting the permanent magnet to a recoil pulse. It would have been obvious to one having ordinary skill in the art at the time the invention was made to magnetize the precursor body at a temperature above room temperature for the purpose of increasing the magnet's saturation magnetization and to subject the permanent magnet to a recoil pulse for the purpose of stabilizing the permanent magnet's field, since it has been held to be well known in the art to employ these methods.

Allowable Subject Matter

9. Claims 8-9, 18-20, and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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10. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art of record disclosed or taught varying Akioka's composition in Table 3, sample 19, to contain an RE comprising about 0.5 to about 5 atomic percent Ce; and between about 0.5 to about 20 atomic percent Co.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mizoguchi(US4878964)[table 1], Otsuka(US5011552)[example 10], and O'Handley(US5225004)[col. 8], all references cited on Applicant's IDS, disclose Applicant's claimed composition.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramon M. Barrera whose telephone number is (571) 272-1987. The examiner can normally be reached on Monday through Friday from 11 to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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